

# Officers

## American Chemical Society, Pittsburgh Section



Chair .....	Nick Tsarevsky
Chair-elect.....	Garry Warrock
Secretary .....	Joseph Jolson
Treasurer .....	Simion Coca
Secondary School Chemistry Contest Committee .....	Paul Johnson
National Chemistry Olympiad .....	Patricia A. Bordell

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## Society for Analytical Chemists of Pittsburgh



Chair .....	William R. Sharpe
Chair-elect.....	Gregg Gould
Secretary .....	Maria K. Ferguson
Treasurer .....	Susan K. Zawacky
Immediate Former Chair .....	Adrian C. Michael
Awards Dinner Committee Co-Chairs	
Co-Chairs-Elect .....	Larry E. Senor & Rita M. Windisch
Co-Chair-elects .....	William A. Straub, Robert G. & Julie A. Theys

Special Thanks to the following for their assistance in making 2009 Awards Dinner a successful evening:

Charlotte Backer	Fu-Tyan Lin	Chris Senor
Roy Backer	James Manner	Madeline Sharpe
Richard Danchik	Nathan Vswanathan	Betty Sparr
Deborah Hreha	Richard Obrycki	Sonja Straub

Administrative Assistant..... Valarie Daugherty



# Program

Invocation ..... Richard S. Danchik

## Introduction:

*Chair, Pittsburgh Section*

*American Chemical Society* ..... Nick Tsarevsky

*Chair*

*Society for Analytical Chemists of Pittsburgh* ..... William R. Sharpe

## **Presentations of Awards:**

### **ACS AWARDS:**

50-Year ACS Membership Awards

PJAS Student Awards

PJAS Elementary Chemistry Award

Pittsburgh Section Chapters of ACS Student Affiliates

2009 Chemistry Contest

Pittsburgh Regional School Science and Engineering Fair

Pittsburgh Chemistry Olympics

U.S. National Chemistry Olympiad

### **SACP AWARDS:**

Science Outreach ..... Fu-Tyan Lin

Scholarship and Grants ..... Manuel R. Miller

50 Year Members ..... William R. Sharpe

Chair's Award ..... William R. Sharpe

## **Science Outreach**

PJAS Teacher Awards

PJAS Student Awards

Pittsburgh Regional School Science and Engineering Fair

SACP High School and Middle School Science Essay Contest

West Liberty College Regional Science Fair

## **Scholarships and Grants**

College Chemistry Awards

Starter Grants

Undergraduate Analytical Research Program (UARP) Grant

College Chemistry Scholarships

## **Closing Remarks and SACP Election Results**



# American Chemical Society AWARDS



## 50-Year and 60-Year Membership Awards

Each year the American Chemical Society honors those individuals who have achieved 50 and 60 years of continuous membership. Each 50-year and 60-year member receives a certificate and badge for admission to any National ACS Meeting.

The following 13 Members of the Pittsburgh Section celebrate 50 years of membership in the American Chemical Society during 2009:

Mr. Robert W. Baudoux, Sr.	Dr. Patty H. Laswick
Dr. Albert A. Caretto	Dr. Edwin S. Martin
Mr. Glenn P. Craver	Dr. Richard H. Morrison
Mr. Dale F. DeBlander	Mr. Vello Nolvak
Mr. James J. Fasnacht	Mr. John S. Ostrowski
Dr. Gabriel C. Fusco	Mr. Richard Albert Trudel
Dr. Raymond A. Kramer	

The following 7 Members of the Pittsburgh Section celebrate 60 years of membership in the American Chemical Society during 2009:

Mr. William Emerson Boggs	Ms. Helen Z. Lamrey
Dr. Robert F. Chaiken	Mr. George Wesley Perkins
Dr. Sidney Friedman	Mr. George O. Pruet
Mr. Thomas J. Junker	

The newly named Fifty-Year and Sixty-Year Members will be honored at the Pittsburgh Chemists Club meeting on May 26, 2009.

## ACS PJAS Student Awards

The Pennsylvania Junior Academy of Science (PJAS) met on Saturday, February 7, 2009 at Keystone Oaks High School and held the 75th Annual Region 7 competitions. A panel of ACS professionals judged the high school chemistry and biochemistry event. Each winner received a plaque from the Pittsburgh Section of ACS titled "Outstanding Achievement in Chemistry and Biochemistry" and a check for \$100.

<b>AWARDEE</b>	<b>TEACHER</b>
Maria Kovalchuk .....	Ryan Newton
<i>Ellis School</i>	
Rebecca Craig .....	Marion Carson
<i>Riverview School</i>	
William Staniszewski .....	Cathy Grecco
<i>Taylor Allderidge High School</i>	

Victoria Vernacchio ..... Pamela Harris  
*Mt. Lebanon High School*  
 Nathaniel Preston Houck ..... Mark Krotec  
*Pittsburgh Central Catholic High School*

Two students below received a plaque from Duquesne University.

Shane Fischbach ..... Catherine DiDomenico  
*Taylor Allderdice High School*  
 Helen Bunker ..... Brenda Abbey  
*Winchester Thurston High School*

## PJAS Elementary Science Awards

<b>Student</b>	<b>Teacher</b>
Allison Walker .....	Charolette Leibach
<i>St. Teresa of Avila</i>	
Nicole Johnson .....	Mary Chirdon
<i>St. Joseph-Verona</i>	
Megan Rosenberger .....	Cheryl Kestner
<i>Mary Queen of Apostles</i>	
Emily Veeck .....	Lynda Reilsono
<i>St. James-Sewickley</i>	
Gabriel Schroeder .....	Cheryl Kestner
<i>Mary Queen of Apostles</i>	
Alex Senchak .....	Theresa Szmed
<i>St. John the Baptist</i>	
John Plazek .....	Spindler Stock
<i>Assumption</i>	
Michael Kelley .....	Catherine Borecky
<i>St. Thomas Moore</i>	
Colleen Doyle .....	Mary Chirdon
<i>St. Joseph-Verona</i>	
Molley Morabito .....	Kim Mechling
<i>The Ellis School</i>	

*All Students received a certificate titled "Outstanding Achievement in Chemistry and Biochemistry". The two students below received a plaque and a \$100 Gift Certificate for the Duquesne University Award.*

Allison Walker .....	Charolette Leibach
<i>St. Teresa of Avila</i>	
Nicole Johnson .....	Mary Chirdon
<i>St. Joseph-Verona</i>	

## Awards to Pittsburgh Section Chapters of the Student Affiliates of the ACS

### Outstanding Award

University of Pittsburgh

University of Pittsburgh at Titusville

### Commendable Award

Carlow University

Duquesne University

Waynesburg University

### Honorable Mention

Clarion University

Saint Vincent College

### Green Chemistry

University of Pittsburgh

University of Pittsburgh at Titusville

## 2009 Chemistry Contest

Each year since 1945, the Pittsburgh Section of the American Chemical Society has sponsored a contest for secondary schools to recognize outstanding achievement by the students and their teachers as well as encouraging interest in chemistry among school students. The contest recognizes three categories: first-year students in large schools, first-year students in small schools, and second-year students. The contest is also used to qualify students interested in participating in the International Chemistry Olympics and to identify students for scholarships. This year 131 students from 30 schools competed for prizes and scholarships. First place in each category is awarded \$250, second place \$150, third place, \$100.

## Pittsburgh Section, American Chemical Society 2009 Secondary School Chemistry Contest Winners

PRIZE	STUDENT	SCHOOL	TEACHER
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### Category S - First Year Chemistry, Large Schools

First	Kevin Skolnick .....	Mount Lebanon .....	Susan Meer
Second	Gregory Kownacki .....	Mount Lebanon .....	Susan Meer
Third	Matthew Ehland .....	Mount Lebanon .....	Susan Meer
Third	Zachary Berquist .....	Peters Township .....	Walter Jennings

### Category S - First Year Chemistry, Small Schools

First	Ethan Swan .....	Greensburg Central Catholic .....	Sister Mary Helen
Second	Dominic Pimpinella .....	Greensburg Central Catholic .....	Sister Mary Helen
Third	Jill Lantzy .....	Greensburg Central Catholic .....	Sister Mary Helen
Third	Morgan Morelli .....	Steubenville Central Catholic .....	Stephanie Duck

### Category D - Second Year Chemistry

First	Konstantin Borisov .....	North Allegheny .....	Matthew Davis
Second	Jin Zhu .....	North Allegheny .....	Matthew Davis
Third	Edward Goncz .....	North Allegheny .....	Matthew Davis
Third	Christian Clarke .....	Greensburg Central Catholic .....	Sister Mary Helen

# Pittsburgh Regional School Science and Engineering Fair

At the 70th Pittsburgh Regional Science and Engineering Fair held on Friday April 3, 2009 at Heinz Field, the Pittsburgh Section of the American Chemical Society presented two awards in the field of Chemistry.

## Senior Award

Student..... Maria Kovalchuk  
Exhibit ..... *"Utilizing Industrial Waste"*  
School ..... The Ellis School

## Intermediate Award

Student..... Mike Kelley  
Exhibit ..... *"The Effect of Antacids on the pH of Gastric Juice"*  
School ..... St. Thomas More School

## 30th Annual Pittsburgh Chemistry Olympics

The Pittsburgh Chemistry Olympics originated thirty years ago with 10 schools and 40 students participating. The Pittsburgh Section of the American Chemical Society jointly sponsors The Chemistry Olympics with the University of Pittsburgh Chemistry Department and the Society for Analytical Chemists of Pittsburgh.

Schools may enter three teams. Each team consists of three members. There are three categories. Category I is first year chemistry, Category II is second year chemistry, and Category III is advanced organic chemistry.

### Category I

First Place..... *Gateway High School* ..... Coach: Tim Lattanzio  
Sam Rosko, Kristopher Pomiecko, Michael Richards

Second Place ..... *South Park High School* ..... Coach: Jim Pastorius  
Matt Conley, Aaron Crain, Aaron Sproul

Third Place ..... *North West PA Collegiate Academy* ..... Coach: Shawn Feiock  
Lori Radder, Nicde Crouch, Katie Brown

### Category II

First Place ..... *North Allegheny High School* ..... Coach: Robert Wienand  
Kostya Borisov, Adriana Jensen, Aidan MacDonagh

Second Place ..... *Riverview High School* ..... Coach: Marrion Carson  
Eddie Grystar, Rebecca McAfee, Hayley Flowers

Third Place ..... *Greensburg Central Catholic* ..... Coach: Sr. Mary Helen Meyer  
Kenneth Swidwa, Chris Clarke, Madeline Leo

### Category III

First Place ..... *Penn Trafford High School* ..... Coach: Dr. Helen Loughner  
Garry Smyda, Cassandra Dutt, Alexander Pingel

Second Place ..... *North Allegheny High School* ..... Coach: Robert Wienand  
Shivam Verma, Kevin Liu, Nimish Telong

Third Place ..... *Mount Lebanon* ..... Coach: Matt Roddy  
Dale Wang, Rich Karp, Ritchie Phan

## ACS Pittsburgh Section Nominees to The United States National Chemistry Olympiad

The Pittsburgh Section of the American Chemical Society has sponsored a program to select nominees to the United States Olympiad for the last twenty-seven years. Each participating high school can nominate two students who must write the Pittsburgh Section's Annual Chemistry Contest exam for second-year students of chemistry. The test results were then used to select the students to take the National ACS Olympiad Exam at Duquesne University on April 25, 2009. From the National Exam, twenty students will be invited to a study camp in June at the U.S. Air Force Academy in Colorado. The study camp is used to determine the best four students to travel to Cambridge, England, July 3-18, to compete in the International Chemistry Olympiad.

For 2009 the Pittsburgh Section selected six nominees to write the National Exam. These nominees and their teachers will be recognized for participating in the program at the May annual SACP/ACS Awards dinner. In 1993 David Hutz of Fox Chapel High School won a silver medal in Perugia, Italy. Students who have attended the study camp include Kevin McCarty of Indiana Area High School and Paul Arezina of Central Catholic High School in 1997, Zhe Lu of Gateway High School in 2000 and Jongjin Kim of North Allegheny in 2004. The nominees who wrote the National Exam on April 25 include:

<b>STUDENT</b>	<b>TEACHER</b>
Mr. Konstantin Borisov ..... <i>North Allegheny Senior High School</i>	Mr. Matthew Davis
Ms. Katherine Luo ..... <i>North Allegheny Senior High School</i>	Mr. Matthew Davis
Mr. Devon Albert ..... <i>Penn-Trafford High School</i>	Dr. Helen Loughner
Ms. Michelle Yakubisin ..... <i>Penn-Trafford High School</i>	Dr. Helen Loughner
Ms. Ana K. Duggan ..... <i>Hempfield Area High School</i>	Mrs. Joanne Hervol
Ms. Rebecca Stabile ..... <i>Gateway Senior High School</i>	Mr. Timothy Lattanzio

# Society for Analytical Chemists of Pittsburgh



## AWARDS



### SCIENCE OUTREACH

#### Pennsylvania Junior Academy of Science

#### TEACHER AWARD

The SACP sponsors two Teacher Awards annually to an outstanding junior (grade 7-8) and senior (grade 9-12) high school teacher in the Pittsburgh area. Criteria used by the selection committee of the SACP are based on the number of first and second prize winning students sponsored by the teacher over the previous three Region 7 Pennsylvania Junior Academy of Sciences (PJAS) Meetings. Emphasis is placed on teachers who sponsor chemistry and chemistry related projects. The awards consist of a \$500 award and a plaque. This year's awards will be presented to the following teachers:

Grades 7-8 Catherine Borecky ..... St. Thomas More Elementary School  
Grades 9-12 David DiPasquale ..... Shaler Area High School

#### STUDENT AWARDS

The SACP sponsors six annual awards to students presenting excellent chemistry or chemistry-related projects at the Region 7 meeting of the PJAS. An award is presented to the student in each of grades 7 through 12 receiving the highest score for their project. The Awards consist of a \$300 grant to defray the cost of attending the statewide PJAS meeting.

<b>STUDENT</b>	<b>TEACHER</b>
Emily Veeck (7 <sup>th</sup> Grade) .....	Lynda Reilsono <i>St. James - Sewickley Elementary School</i>
Allison Walker (8 <sup>th</sup> Grade) .....	Charlotte Leibach <i>St. Teresa of Avila Elementary School</i>
Jonya Chen (9 <sup>th</sup> Grade) .....	Bruce Allen <i>North Allegheny Intermediate High School</i>
Shane Fischbach (10 <sup>th</sup> Grade) .....	Catherine DiDomenico <i>Taylor Allderdice High School</i>
Helen Bunker (11 <sup>th</sup> Grade) .....	Brenda Abbey <i>Winchester Thurston</i>
Rebecca Craig (12 <sup>th</sup> Grade) .....	Marion Carson <i>Riverview Jr. Sr. High School</i>

**Pittsburgh Regional School  
Science and Engineering Fair  
(at Heinz Field)**

This year marks the 70<sup>th</sup> anniversary of the Science Fair. The SACP as a professional society is a sponsor of the Fair and grants six special cash awards. The selection of winners is based on originality, creativity, and organization as applied to the composition and structure of matter. Special emphasis is placed on general science at the junior high level and analytical chemistry at the senior high level.

**SENIOR DIVISION**

<b>Student</b>	<b>Teacher</b>
Joseph Gault .....	Mark Krotec
<i>Central Catholic High School</i> <i>“Effects of Cooking on Calories”</i>	
Priyanka Ghosh .....	Richard Sunny
<i>Franklin Regional High School</i> <i>“Acetaminophen Analysis by LCMS”</i>	
Michael Stoltz .....	Laura Fisanick
<i>Cambria Heights High School</i> <i>“Electrophoresis”</i>	

**JUNIOR AND INTERMEDIATE DIVISIONS**

<b>Student</b>	<b>Teacher</b>
Meghana Gorur .....	Jim Basilone
<i>Ingomar Middle School</i> <i>“Water Hardness and Sulfate Formation”</i>	
Adam Dando .....	John Blank
<i>Franklin Regional Middle School</i> <i>“Particle Size Chemistry”</i>	
Molly Marabito .....	Kim Mechling
<i>Ellis School</i> <i>“Water Treatment Techniques”</i>	

## SACP High School and Middle School Science Essay Contest

Each year the SACP sponsors an essay competition in which students in the tri-state area are asked to write an essay of no more than 325 words on a specific topic in science. This year's topics were **“If you were a policy advisor to the President of the United States, what recommendation would you make concerning alternative energy sources? Be sure to include scientific background regarding your suggestions and cite all resources used.”** (High School) and **“Many technologies affect our lives. Suppose today's technologies did not exist, how would our lives be different? Use some examples of how one specific technology has changed the way we live our lives”** (Middle School). The High School and Middle School Essays were each judged by a committee of at least six SACP members on the basis of content, creativity, composition, and adherence to the rules of the contest. Only two entries were permitted from each school. Fourteen essays in the High School category were selected for monetary awards. (three top awards and eleven honorable mentions). Nine essays in the Middle School category were selected for monetary awards (three top awards and six honorable mentions). The first, second, and third place winners are:

**High School First Place Award Winner** **Teacher**  
Ryan Zahalka ..... Ms. Jane Larke  
*Morgantown High School*

**High School Second Place Award Winner** **Teacher**  
Eric Wise ..... Mr. Jeff McGowan  
*South Fayette High School*

**High School Third Place Award Winner** **Teacher**  
Tyler Houry ..... Mr. Jeff McGowan  
*South Fayette High School*

**Middle School First Place Award Winner** **Teacher**  
Tommy McCoy ..... Ms. Susan Clark  
*Marshall Middle School*

**Middle School Second Place Award Winner** **Teacher**  
Celine Colbert ..... Ms. Lauren Kulak  
*Montour High School*

**Middle School Third Place Award Winner** **Teacher**  
Joshua S. Bowman ..... Ms. Brenda Lamb  
*Peters Township Middle School*

## West Liberty College Regional Science Fair

The West Liberty State College Regional Science Fair has provided mathematics and science students in grades 6 through 12 an opportunity to present the results of their scientific efforts for 50 years. The fair includes students from public and private schools in Hancock, Brooke, Ohio, Marshall, and Wetzel counties in the West Virginia and Jefferson and Belmont counties in Ohio. This Fair, like the Carnegie Science Fair, sends grand prize winners to the International Fair.

### Senior Division Winner

Andrew Smith ..... Dr. Ball

*Bishop Donahue High School  
"Fruit Juice Fermentation"*

### Teacher

### Junior Division Winner

Javob Klettner ..... Ms. Vermillion

*St. Vincent de Paul Parish School  
"I see... Vitamin C"*

### Teacher



# SCHOLARSHIPS AND GRANTS

## College Chemistry Awards

The SACP has honored outstanding students in Chemistry in the tri-state region since 1961 with its College Chemistry Awards program. Thirty students and colleges will be recognized this year. Each awardee will be presented with a check for \$500 and a framed certificate. The college library fund will receive a check for \$300 and a commemorative plate with the student's name. The Chemistry Department will receive an engraved name plate to add to the plaque recognizing prior SACP award winners. We are proud of the successful careers of those who have received this award in the past and wish our awardees good luck in their future endeavors.

<b>School</b>	<b>Awardee</b>
University of Akron .....	Aaron Johnson
Allegheny College .....	Elisabeth Whitman
California University of Pennsylvania .....	Christopher M. Marin
Carlow University .....	Bonnie A. Merchant
Carnegie-Mellon University .....	Theresa Myers
Chatham University .....	Maureen McGuirk
Clarion University of Pennsylvania .....	Jesse L. Bischof
Duquesne University .....	Anastasia Berrier
Edinboro University of Pennsylvania .....	William L. Dillen
Gannon University .....	Alyssa M. Mick
Geneva College .....	Sarah Brooks Colbert
Gettysburg College .....	Daniel Ziegler
Grove City College .....	Benjamin Michael Pullinger
Indiana University of Pennsylvania .....	Olivia McGovern
LaRoche College .....	Daniel Perish
Pennsylvania State University .....	Tien Van
University of Pittsburgh .....	Devon E. Potts
Saint Francis University .....	David Kirby
Saint Vincent College .....	Theresa E. Downey
Seton Hill University .....	Mia Gunawan
Shippensburg University of Pennsylvania .....	Mark Mason
Slippery Rock University of Pennsylvania .....	Nicole L. Rizert
Thiel College .....	Punit Upadhyaya
Washington and Jefferson College .....	Daniel J. Clingerman
Waynesburg College .....	Bradley W. Davis
Westminster College .....	Andrew P. Davic
West Virginia University .....	Edward D. Gaker
West Virginia Wesleyan College .....	Erica Comstock
Wheeling Jesuit University .....	Justin P. Provenzano
Youngstown State University .....	Brooke M. Katzman

## Starter Grant

This year marks the presentation of the 31<sup>st</sup> Annual Analytical Chemistry Starter Grant Award sponsored by the SACP. The purpose for this \$40,000 grant is to encourage high-quality innovative research and to promote the training and development of graduate students in the field of analytical chemistry. Eligible applicants are assistant professors who have demonstrated a financial need, proposed research of considerable scientific merit with the likelihood of making a significant positive impact on both graduate students and the field of analytical chemistry, and accepted college or university appointments after December 31, 2006.

### **AWARDEE**

### **SCHOOL**

Radha Narayanan ..... *University of Rhode Island*

## **Undergraduate Analytical Research Program (UARP) Grant Ninth Annual Award**

The Society for Analytical Chemists of Pittsburgh (SACP) has established two annual grants of up to \$10,000 each to promote (1) high-quality, innovative undergraduate research in the field of Analytical Chemistry and (2) training and development of undergraduate students in the field of analytical chemistry. Chemistry faculty at U.S. colleges and universities not having a graduate program in the chemical sciences are eligible to apply.

### **Awardees**

### **School**

Dr. Christine A. Hughey ..... Chapman University

*“Effect of Mobile Phase Modifiers on Chromatographic Separation and  
Negative Ion Electrospray Ionization (ESI) Response”*

Dr. Nathan A. Stump ..... Winston-Salem State University

*“Optical Investigations of Divalent and Trivalent  
Lanthanide Ions in Tetraborate Vlatices ”*

## SACP College Chemistry Scholarships

These awards consist of renewable, four year scholarships, one \$20,000 scholarship (\$5,000 per year for 4 years), and two \$12,000 scholarships (\$3,000 per year for 4 years). The awards are granted after a thorough evaluation of the students' high school academic records, written essay, and performance on the SAT and the Annual ACS Secondary School Chemistry Contest. It is the SACP's intent to promote the interest of the students toward a career in Chemistry, or a related field.

### Student (\$20,000 Scholarship)

Kevin Liu ..... Mr. Matthew Davis

*North Allegheny High School*

### Teacher

### Student (\$12,000 Scholarship)

Katherine Luo ..... Mr. Matthew Davis

*North Allegheny Senior High School*

### Teacher

### Student (\$12,000 Scholarship)

Louis Miller ..... Sr. Mary Helen Meyer

*Greensburg Central Catholic High School*

### Teacher

## SACP 50 Year Members

William A. Straub

## SACP Chair's Award for 2008

The SACP Chair's Award is made for outstanding and continued contributions toward the goals and mission of the society. Each Awardee receives a recognition plaque. In addition, the SACP will make a \$1500 donation in honor of the awardee who supports the Society's mission. The first Chairman's Award was presented in 2000.

## Closing Remarks and SACP Election Results



## *Menu*

*Cream of Tomato Soup*

*Mixed Greens Salad*

*Pierre Chicken Breast*

*Dauphenoise Potato*

*Whole Kernel Corn*

*Pecan Ball*

*(with Hot Fudge Sauce)*

*Coffee   Tea   Iced Tea*

